Supporting Waters Empower 2 Data With OpenLAB Enterprise Content Manager

Data Sheet

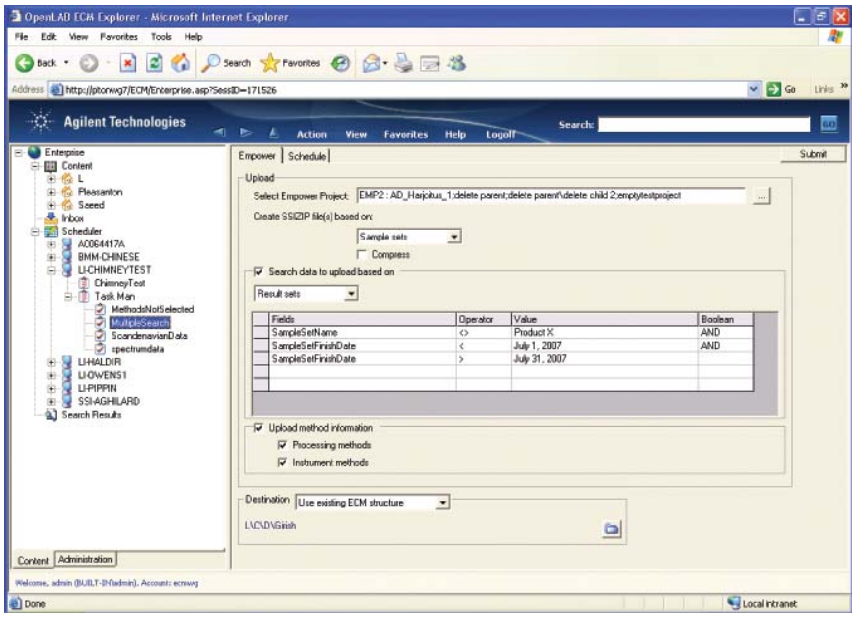

Figure1. Search the Empower database with OpenLAB ECM's scheduled import service for data that matches user defined criteria

Key Benefits

- Reduce the time from data to decision making, by ensuring information is immediately available and easy to find – even after it has been archived.
- Increase the useful life time of data by providing tools for reviewing archives without requiring a restore process.
- Reduce implementation and training costs with a web based application that provides users with a familiar user interface based on industry standards.
- Increase efficiency with tools that are capable of archiving data with no end user interaction.

Chromatography data systems that have a database backend rather than producing flat files, such as Waters Empower, present an interesting data management dilemma. Database products such as Oracle and SQL Server produce an archive file that is compressed and can be easily stored for long term data archive. However, in that archive format the data can not be viewed, indexed, or searched.

Agilent's OpenLAB Enterprise Content Management (ECM) system has specialized support for Waters Empower data. Using this Empower specific interface, users can schedule automated data transfer into OpenLAB ECM. OpenLAB ECM allows users to query Empower for data that meets user defined archive criteria including: sample sets no longer acquiring data; projects older than a user defined time period; or result sets with a particular custom defined fielf value. When stored in OpenLAB ECM, the data can be indexed, searched, and reviewed without a complex restore procedure.

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OpenLAB ECM Empower 2 Support

OpenLAB ECM offers a specialized interface for archiving Waters Empower data. With this scheduler agent add-in, a user can define which sequence data to be uploaded: projects, sample sets, or result sets, as well as when it should be uploaded.

The user can enter a series of search criteria that the add-in uses to find data suitable for upload to ECM. The following Empower 2 search fields are supported:

Field Name	Example Value
System Name	Alliance
System Components	QA System 1
Empower Node	Pplab6
System Create Date	9/17/1997 4:55:54PM EDT
Sample Set Name	PQ Sample Set
Sample Set Method	QuickSet
Sample Set Start Date	9/17/1997 4:55:54PM EDT
Sample Set Finish Date	9/17/1997 4:55:54PM EDT
Sample Set ID	1169
Sample Set Acquired By	JSmith
Sample Set Altered	No
Sample Set Acquiring	No
Sample Set Comments	Lot XYZ
Result Set Name	PQ Results Set
Result Set Date	9/17/1997 4:55:54PM EDT
Result Sample Set Method	PQ Result Method
Result Set ID	2308
Result Set Comments	Results for Lot XYZ
<other dynamic and custom fields>	

When the scheduled task executes, the add-in uses the search criteria to find data suitable for archive to ECM. Before generating the Empower database archive file, the information is exported into an XML (or technology neutral) file.

The technology neutral representation of the data is packaged with the archive file and uploaded to OpenLAB ECM.

The Technology Neutral File (TNF) is indexed and searchable metadata is associated with the archive.

Using the Technology Neutral File (TNF) viewer, the archived data can be reviewed, annotated, and even reused without a lengthy restore procedure – keeping Empower data useful throughout its entire life cycle.

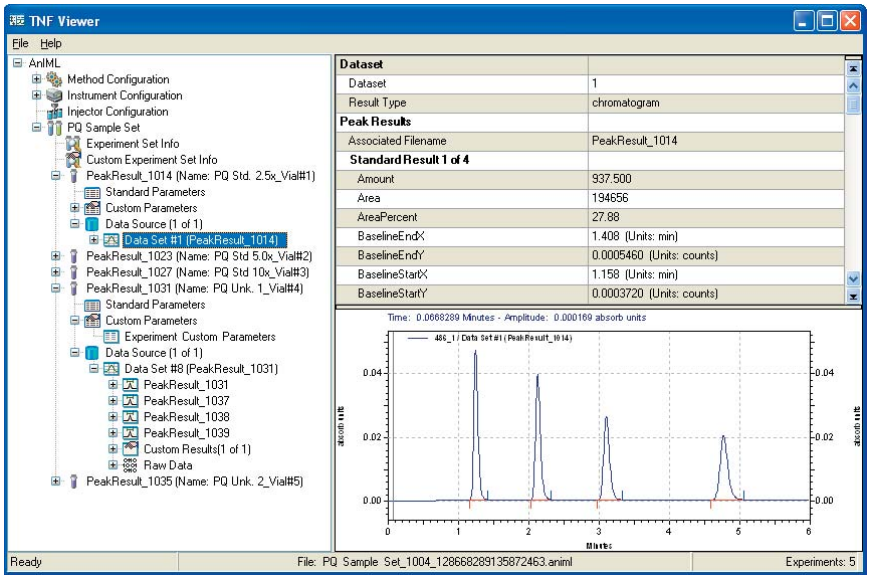

Figure 2.
Empower data viewed from OpenLAB ECM

OpenLAB Enterprise Content Manager (ECM)

OpenLAB Enterprise Content Manager (ECM) is a software solution that helps you make better decisions faster than ever. By providing a secure, central repository and rich content services, ECM allows you to create, manage, collaborate, archive, and re-use all of your business critical information with ease. ECM manages raw data and human readable documents of any data, in any form, from any supplier, and its web-based user interface drastically reduces the learning curve for new users.

OpenLAB ECM has a modular architecture that allows you to tailor the system topography to your corporate environment. As your business needs grow, OpenLAB ECM can grow with you; start small and add additional servers when necessary.

Because it was born in the life sciences laboratory environment, OpenLAB ECM has the unique ability to manage data generated from analytical instruments and measurement devices (e.g. chromatography systems, mass spectrometry, NMR, imaging systems) as well as any document type. OpenLAB ECM also has a complete set of features designed to aid in regulatory compliance.

OpenLAB ECM is a proven solution that has helped organizations across a number of industries get control of their business critical information while improving regulatory compliance, reducing operational costs, boosting productivity levels, and increasing customer satisfaction.

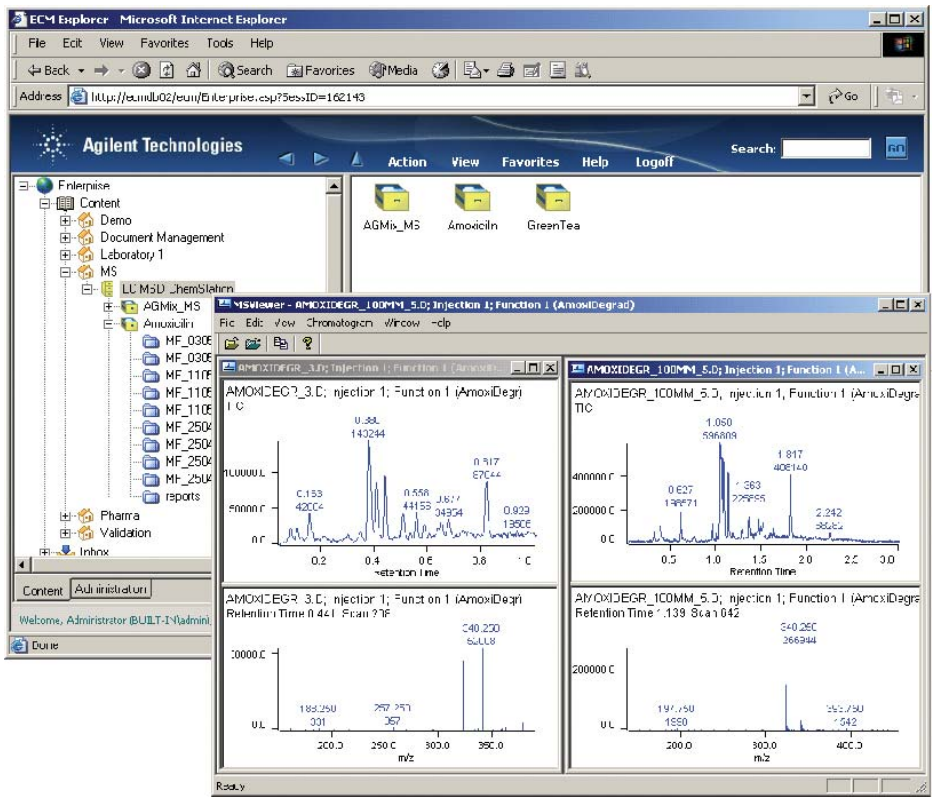

Figure 3.
Agilent's OpenLAB Enterprise Content Manager (ECM)

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